

SUBJECT
Enhanced Evaporation Particulate Air Monitoring

DATE
July 24, 2017

LOCATION
Yerington Mine Site
1 Austin Circle
Yerington, NV 89447

FROM
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TO
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WORK RELEASE NUMBER
WR309438

OUR REF PROJECT NUMBER
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Overview

This memo is intended to provide a plan of action in order to meet United States Environmental Protection Agency- (USEPA-) requested requirements for air quality monitoring associated with the operation of an Enhanced Evaporation System (EVS) at the Yerington Mine Site in Yerington, Nevada (the site). The USEPA has requested that air monitoring be performed to ensure that the proposed recently approved EVS does not impact air quality in adjacent areas. To address these requirements, Arcadis has produced an air monitoring plan to establish particulate monitoring stations around the site that would help evaluate the potential presence of impacts from operation of the EVS. As the USEPA has concerns about air particulate leaving the site, this air particulate monitoring plan will replace the proposed desiccant moisture monitoring plan.

Monitoring Plan

ARC proposes to set up three particulate matter less than 10 microns in diameter (PM₁₀) dust monitoring stations around the northwest perimeter of the mine site and south of Evaporation Ponds B and C in conjunction with a meteorological station on top of the Vat Leach Tailings (VLT) Heap Leach Pad (HLP). Locations of the monitoring stations are identified on the attached Figure 1. The dust monitoring stations will record data every 15 minutes using dataloggers along with the meteorological station, which would record wind speed and direction as well as other weather information per the schedule outlined below. All data will be correlated to create a relationship between wind speed, direction, and air particulate density. If no statistically significant increase in PM₁₀ is detected during 1 week of operation, then monitoring will be discontinued.

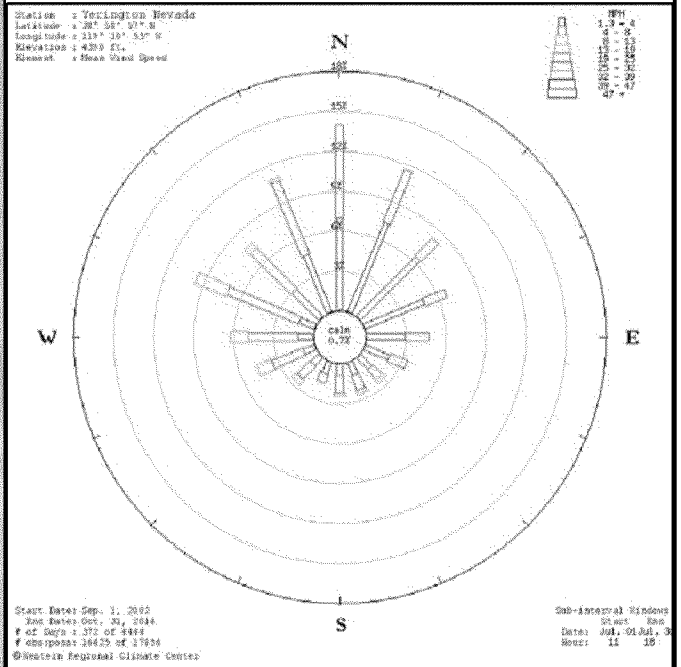
Schedule

ARC proposes to monitor particulates for 1 week, during site work hours, before the EVS startup to establish a benchmark for background particulate levels associated with regional and local dust-generating conditions. After the EVS startup, monitoring will continue for another week during site work hours (not just during the period of operation of the EVS). The current enhanced evaporation plan includes running the system for 3 hours per day and will provide an appropriate monitoring window to assess changes in particulate suspension and movement from system operation. Following the monitoring period, all data will be analysed, and a summary report showing results will be provided to the USEPA.

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- PROPOSED PM10 MONITORING STATION
- PROPOSED METEOROLOGICAL MONITORING STATION



BP
YERINGTON MINE SITE

PROPOSED PM10
MONITORING
LOCATIONS